

ABSTRACTA process of controlled radical grafting of a polyolefin

The present invention relates to a controlled radical grafting process of a polyolefin derived from monomeric units including α -olefins. This process comprises the reaction of the polyolefin and at least one radical reaction initiator with a grafting system which comprises at least one grafting compound having an electron donator heterocyclic aromatic ring conjugated to at least one $-\text{HC}=\text{CR}_1\text{R}_2$ group in which at least one of R_1 and R_2 is an electron acceptor functional group. The process can be performed continuously in an extruder or discontinuously in a mechanical mixer.